

Docket No.: TWI-8550-(US)
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Michial D. Howell, et al.

Serial No.: 09/499,478

Group Art Unit: Not Yet Assigned

Filed: February 7, 2000

Examiner: Not Yet Assigned

For: **METHOD AND APPARATUS FOR
PREPARING SEMICONDUCTOR WAFERS
FOR MEASUREMENT**

POWER OF ATTORNEY BY ASSIGNEE

Assistant Commissioner for Patents
Washington, DC 20231

Dear Sir:

THERMA-WAVE, INC., assignee of the entire right, title and interest in the above-identified application by assignment dated February 17, 2000, which assignment was recorded in the Patent and Trademark Office on April 17, 2000, at Reel 10775, Frame 175, hereby appoints the members of the firm of LIMBACH & LIMBACH L.L.P., a firm composed of:

Karl A. Limbach, 18,689; George C. Limbach, 19,305; John K. Uilkema, 20,282; Neil A. Smith, 25,441; Veronica Colby Devitt, 29,375; Ronald L. Yin, 27,607; Gerald T. Sekimura, 30,103; Michael A. Stallman, 29,444; Philip A. Girard, 28,848; Michael J. Pollack, 29,098; Stephen M. Everett, 30,050; Alfred A. Equitz, 30,922; Charles P. Sammut, 28,901; Mark C. Pickering, 36,239; Patricia Coleman James, 37,155; Kathleen A. Frost, 37,326; Alan A. Limbach, 39,749; Douglas C. Limbach, 35,249; Seong-Kun Oh (recognition under 37 CFR 10.9(b)); Cameron A. King, 41,897; Kyla L. Harriel, 41,816; Mayumi M. Maeda, 40,075; Michael R. Ward, 38,651; Roger S. Sampson, 44,314; Charles L. Hamilton, 42,624; Andrew V. Smith, 43,132; Eric N. Hoover, 37,355; Frank J. Mycroft, P-46,946; Parisa Jorjani, P-46,813; J. Thomas McCarthy, 22,420; and Joel G. Ackerman, 24,307.

as its attorneys with full power of substitution to prosecute this application and to transact all business in the Patent and Trademark Office in connection therewith.

Please direct all correspondence regarding this application to the following:

Limbach & Limbach L.L.P.
Attn: Michael A. Stallman
2001 Ferry Building
San Francisco, CA 94111
Telephone: 415 433-4150
Fax: 415 433-8716

For: THERMA-WAVE, INC.



Allan Rosenbaum
Chairman

Dated: 7/31/00



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JULY 13, 2000

PTAS

LIMBACH & LIMBACH, L.L.P.
MICHAEL A. STALLMAN
2001 FERRY BUILDING
SAN FRANCISCO, CA 94111



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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/17/2000

REEL/FRAME: 010775/0175
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:
HOWELL, MICHAEL DUFF

DOC DATE: 02/17/2000

ASSIGNEE:
BOWMAN, BARRY ROY

DOC DATE: 02/17/2000

ASSIGNEE:
THERMA-WAVE, INC.
1250 RELIANCE WAY
FREMONT, CALIFORNIA 94539

SERIAL NUMBER: 09499478
PATENT NUMBER:

FILING DATE: 02/07/2000
ISSUE DATE:

PEARLENE FOSTER, PARALEGAL
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

RECEIVED
101354783
TO THE COMMISSIONER OF PATENTS AND TRADEMARKS.
APR 17 AM 10:32

101354783

FEE PAID: USE THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. Name of conveying party(ies):

OPR/FINANCE
Michael Duff Howell
Barry Roy Bowman

4.17.00

2. Name and address of receiving party(ies):

Name: THERMA-WAVE, INC.

Internal Address: 1250 Reliance Way

Street Address: 1250 Reliance Way

City, State and Zip: Fremont, California 94539

Additional name(s) of conveying party(ies) attached?

 Yes No

3. Nature of Conveyance:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Merger |
| <input type="checkbox"/> Security Agreement | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Other | |

Execution Date: February 17, 2000

Additional Name(s) & address(es) attached:

 Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)
09/499,478

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Michael A. Stallman

Internal Address: Limbach & Limbach L.L.P.
Street Address: 2001 Ferry Building
City, State, ZIP: San Francisco, California 94111
Telephone: (415) 433-4150
Facsimile: (415) 433-8716

Attorney Docket No. TWI-8550

6/11/2000 1250 RELIANCE WAY

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

- Enclosed
 Charge any deficiencies in the enclosed fee to
 Deposit Account No. 12-1420
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8. Deposit account number: 12-1420

FD-501

6.17.00

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9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael A. Stallman, Reg. No. 29,444
Name of Person Signing

Signature

April 15, 2000
Date

Total number of pages including cover sheet, attachments and document: 3

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Mail documents to be recorded with required cover sheet information to:

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Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20213, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503

ASSIGNMENT

WHEREAS, WE, Michial Duff Howell and Barry Roy Bowman, hereinafter referred to as "ASSIGNORS", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: METHOD AND APPARATUS FOR PREPARING SEMICONDUCTOR WAFERS FOR MEASUREMENT

Application (Declaration/Oath) Execution Date: February 17, 2000

Filing Date: February 7, 2000 Application No.: 09/499,478

WHEREAS, THERMA-WAVE, INC., a corporation of the State of Delaware, 1250 Reliance Way, Fremont, California 94539 hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in the said invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for One Dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignors had this assignment and transfer not been made, to the full end and term of any such Letters Patent.

Assignors further agree that they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the date indicated below.

Date: Feb 17, 2000

Michial Duff Howell
Michial Duff Howell

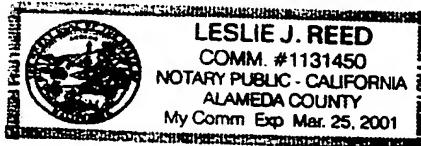
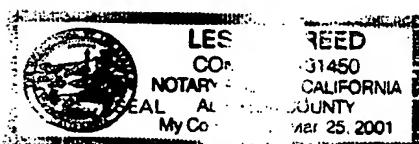
State of California
County of Alameda

On 217-00 before me, LESLIE J. REED

personally appeared MICHAEL DUFF HOWELL personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Leslie J. Reed
Signature of Notary



Attorney Docket No. TWI-8550 11

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the date indicated below.

Date: 17 FEB 2000


Barry Roy Bowman

State of California

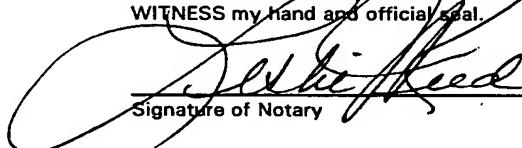
County of Alameda

On 2-17-00 before me,

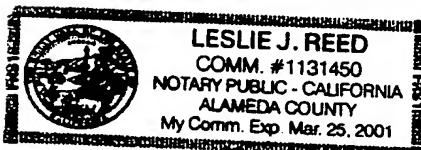

Leslie J. Reed

personally appeared Barry R. Bowman personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.


Signature of Notary

SEAL



DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD AND APPARATUS FOR PREPARING SEMICONDUCTOR WAFERS FOR MEASUREMENT

the specification of which (check one) is attached hereto or X was filed on 2/7/2000 as Application No. 09/499,478 and was amended on (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)	Priority Claimed
	<u>Yes</u> <u>No</u>

Number	Country	Day/Month/Year Filed		
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Number	Country	Day/Month/Year Filed		
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I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) below.

Application Number	Filing Date
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Application Number	Filing Date
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I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application Number	Filing Date	Status: Patented, Pending, Abandoned
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Application Number	Filing Date	Status: Patented, Pending, Abandoned
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Michial Duff Howell

Inventor's signature Michael Duff Howell Date Feb 17, 2000
Residence 1911 Sleepy Hollow Lane, Felton, CA 95018-9508
Citizenship U.S.A.
Post Office Address 1911 Sleepy Hollow Lane, Felton, CA 95018-9508

Full name of second joint inventor, if any, Barry Roy Bowman

Inventor's signature Barry R. Bowman Date Feb 17, 2000
Residence 8671 Beckett Way, Dublin, CA 94568
Citizenship U.S.A.
Post Office Address 8671 Beckett Way, Dublin, CA 94568